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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 10/743,826 | 12/24/2003 | Yoshinobu Kitajima | 26170-168120 | 1145 |
| 38598 ANDREWS KI | 7590 05/10/2007 URTH LLP | | EXAM | INER |
| 1350 I STREET, N.W. | | | MARX, IRENE | |
| SUITE 1100 WASHINGTON, DC 20005 | | | ART UNIT | PAPER NUMBER |
| | | | 1651 , | |
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| | | | 05/10/2007 | PAPER |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| | Application No. | Applicant(s) | | | | |
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| Office Action Summary | 10/743,826 | KITAJIMA ET AL. | | | | |
| omee Action Cummary | Examiner | Art Unit | | | | |
| The MAILING DATE of this communication app | Irene Marx | 1651 | | | | |
| Period for Reply | rears on the cover sincer v | nar are correspondence address | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v. - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUN 36(a). In no event, however, may a will apply and will expire SIX (6) MO, cause the application to become A | ICATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133). | | | | |
| Status | | | | | | |
| 1) Responsive to communication(s) filed on 14 M | Responsive to communication(s) filed on 14 March 2007. | | | | | |
| · <u> </u> | This action is FINAL . 2b) This action is non-final. | | | | | |
| ,— | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is | | | | | |
| closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. | | | | | | |
| Disposition of Claims | | | | | | |
| 4)⊠ Claim(s) <u>1-16 and 18-32</u> is/are pending in the application. | | | | | | |
| 4a) Of the above claim(s) 1-14 and 18-27 is/are withdrawn from consideration. | | | | | | |
| 5) Claim(s) is/are allowed. | | | | | | |
| 6)⊠ Claim(s) <u>15,16 and 28-32</u> is/are rejected. | | | | | | |
| 7) Claim(s) is/are objected to. | | | | | | |
| 8) Claim(s) are subject to restriction and/or election requirement. | | | | | | |
| Application Papers | | | | | | |
| 9)☐ The specification is objected to by the Examine | ₽ Г . | | | | | |
| 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. | | | | | | |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | | |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). | | | | | | |
| 11)☐ The oath or declaration is objected to by the Ex | caminer. Note the attache | d Office Action or form PTO-152. | | | | |
| Priority under 35 U.S.C. § 119 | | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). | | | | | | |
| a) ☐ All b) ☐ Some * c) ☐ None of: | | | | | | |
| 1. Certified copies of the priority documents have been received. | | | | | | |
| 2. Certified copies of the priority documents have been received in Application No | | | | | | |
| 3. Copies of the certified copies of the priority documents have been received in this National Stage | | | | | | |
| application from the International Bureau (PCT Rule 17.2(a)). | | | | | | |
| * See the attached detailed Office action for a list | of the certified copies no | t received. | | | | |
| Attrob mont/ol | | | | | | |
| Attachment(s) 1) Notice of References Cited (PTO-892) | 4) Intension | Summary (PTO-413) | | | | |
| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No | (s)/Mail Date | | | | |
| 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date | 5) | Informal Patent Application | | | | |

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DETAILED ACTION

The amendment filed 3/14/07 is acknowledged.

To facilitate processing of papers at the U.S. Patent and Trademark Office, it is recommended that the Application Serial Number be inserted on every page of claims and/or of amendments filed.

Claims 15-16 and 28-32 are being considered on the merits..

Claims 1-14 and 18-27 are withdrawn from consideration as directed to a non-elected invention.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 15-16 and 28-32 are rejected under 35 U.S.C. 102(b) as being anticipated by Mau et al.

The claims are directed to a composition comprising a dried powder and/or hot water extract of *P. nebrodensis* and which has disease preventing/treating properties.

Mau et al. disclose a composition comprising a powder of Pleurotus erygii (DC.Fr.) Quel., which is the same as P. nebrodensis and is also known as "king oyster mushroom", "almond oyster mushroom", "umbel oyster mushroom", "scallop mushroom", "white king oyster mushroom", "ferule mushroom". See, e.g., page 4587, col. 2, paragraph 1.

It is noted that Mau et al. does not teach that the composition can be used for disease preventing/treating, or for treating and preventing hypertension, hyperlipidemia and/or obesity.

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However, the intended use of the composition does not distinguish the composition since such undisclosed use is inherent in the Mau *et al.* composition. In order to be limiting, the intended use must create a structural difference between the claimed composition and the prior art composition. In the instant case, the intended use does not create a structural difference, thus, the intended use is not limiting. "The claiming of a new use . . . which is inherently present in the prior art does not necessarily make the claim patentable." *In re Best*, 195 USPQ 430, 433 (CCPA 1977). When applicant claims a "composition in terms of function . . . and the composition of the prior art is the same as that of the claim but the function is not explicitly disclosed by the reference, the Examiner may make a rejection under both 35 U.S.C. 102 and 103, expressed as a 102/103 rejection" (MPEP 2112).

"[E]ven though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." In re Thorpe, 777 F.2d 695, 698, 227 USPQ 964, 966 (Fed. Cir. 1985) (citations omitted) (Claim was directed to a Novolac color developer. The process of making the developer was allowed. The difference between the inventive process and the prior art was the addition of metal oxide and carboxylic acid as separate ingredients instead of adding the more expensive pre-reacted metal carboxylate. The product-by-process claim was rejected because the end product, in both the prior art and the allowed process, ends up containing metal carboxylate. The fact that the metal carboxylate is not directly added, but is instead produced in-situ does not change the end product.).

Furthermore, the composition is claimed as a product-by-process. Since the U.S. Patent and Trademark Office is not equipped to manufacture products by the myriad of processes put before it and then obtain prior art products and make comparisons therewith, a lesser burden of proof is required to make out a case of prima facie anticipation/obviousness for product-by-process claims because of their peculiar nature than when a product is claimed in the conventional manner. MPEP 2113. Where the claimed and prior art products are identical or substantially identical in structure or composition, or are produced by identical or substantially identical processes, a prima facie case of either anticipation or obviousness has been established.

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In re Best, 562 F.2d 1252, 1255, 195 USPQ 430, 433 (CCPA 1977). "When the PTO shows a sound basis for believing that the products of the applicant and the prior art are the same, the applicant has the burden of showing that they are not." In re Spada, 911 F.2d 705, 709, 15 USPQ2d 1655, 1658 (Fed. Cir. 1990). Therefore, the prima facie case can be rebutted by evidence showing that the prior art products do not necessarily possess the characteristics of the claimed product. In re Best, 562 F.2d at 1255, 195 USPQ at 433.

Claims 15-16 and 28-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yeung et al. taken with Chen et al. ((2000) Collection of Mushroom Prescriptions; Shanghai Science and Technology/Press, Shanghai, China, pp. 430-431), and Wang et al. and further taken with Ikekawa et al. (U.S. Patent No. 6,783,771) and Mau et al.

The claims are directed to a composition comprising a dried powder and/or hot water extract of *P. nebrodensis* and which has disease preventing/treating properties.

Yeung et al. disclose a composition of *Pleurotus nebrodensis* having hypolipidemic effects. See, e.g., Abstract.

Chen et al. disclose that various medicinal compositions of *Pleurotus nebrodensis* having various medicinal effects are known in the art. See, e.g., Translation.

In addition, Wang et al. discloses a composition containing Pleurotus nebrodensis obtained from Pleurotus eryngii (DC et Fr.) Quel or Pleurotus eryngii (DC et Fr.) Quel nebrodensis (see, e.g., col. 2). Also, Wang teaches a "dried powder" of P. nebrodensis to the extent that the reference suggests that Pleurotus mushrooms in general were commercially available as powders at the time the claimed invention was made (Page 3, [0044]). Even though the reference indicates that "organic solvents" should be used, it does specifically address the use of water at page 4, line 5. Clearly one of ordinary skill in the art would have been motivated at the time the claimed invention was made to use "hot water" to proceed with a more expedient and effective extraction. Moreover, the reference suggests dissolving powders in water to provide drinkable compositions, which, of course, includes hot water (See, e.g., page 4 [0050]. In addition Ikekawa et al. teach the preparation of hot water extract of closely related mushrooms, such as Pleurotus ostreatus (See, e.g., Abstract) and Mau et al. teach powder preparations comprising P. nebrodensis (See, e.g., page 4587, col. 2, paragraph 1.)

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Therefore, it would have been obvious to one having ordinary skill in the art at the time the claimed invention was made to modify the *P. nebrodensis* containing compositions of Yeung *et al.* and Chen *et al.* by providing them in powder and or hot water extract form as suggested by the teachings of Wang *et al.*, Ikekawa *et al.* and Mau *et al.*, for the expected benefit of providing a medicinal composition in a form that is easily digestible and which is stable for long periods of time.

Thus, the claimed invention as a whole was clearly *prima facie* obvious, especially in the absence of evidence to the contrary.

Response to Arguments

Applicant's arguments as they pertain to the above rejection have been fully considered but they are not deemed to be persuasive.

Applicant alleges that because Wang describes using an extract of *Pleurotus* to prevent and treat hypertension, the reference teaches away from using a dried powder of *Pleurotus* nebrodensis. The rationale for this allegation is unclear. The claims are directed to a composition comprising a dried powder and/or hot water extract of *P. nebrodensis*. The reference clearly teaches a solvent extract, and even suggests the use of water to obtain such an extract. In addition the reference teaches that *Pleurotus* compositions are commercially available in powder form.

Moreover, the invention as claimed is directed to a composition and not to methods of treatment. In order to be limiting, the intended use must create a structural difference between the claimed composition and the prior art composition. In the instant case, the intended use does not create a structural difference, thus, the intended use is not limiting. "The claiming of a new use . . . which is inherently present in the prior art does not necessarily make the claim patentable." In re Best, 195 USPQ 430, 433 (CCPA 1977). When applicant claims a "composition in terms of function . . . and the composition of the prior art is the same as that of the claim but the function is not explicitly disclosed by the reference, the Examiner may make a rejection under both 35 U.S.C. 102 and 103, expressed as a 102/103 rejection" (MPEP 2112). Applicant has not demonstrated with objective evidence that the claimed composition differs significantly from the prior art compositions, as taught by Wang et al. or Mau et al., for example.

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Moreover, "[E]ven though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." In re Thorpe, 777 F.2d 695, 698, 227 USPQ 964, 966 (Fed. Cir. 1985) (citations omitted) (Claim was directed to a Novolac color developer. The process of making the developer was allowed. The difference between the inventive process and the prior art was the addition of metal oxide and carboxylic acid as separate ingredients instead of adding the more expensive pre-reacted metal carboxylate. The product-by-process claim was rejected because the end product, in both the prior art and the allowed process, ends up containing metal carboxylate. The fact that the metal carboxylate is not directly added, but is instead produced in-situ does not change the end product.).

Furthermore, the composition is claimed as a product-by-process. Since the U.S. Patent and Trademark Office is not equipped to manufacture products by the myriad of processes put before it and then obtain prior art products and make comparisons therewith, a lesser burden of proof is required to make out a case of prima facie anticipation/obviousness for product-by-process claims because of their peculiar nature than when a product is claimed in the conventional manner. MPEP 2113. Where the claimed and prior art products are identical or substantially identical in structure or composition, or are produced by identical or substantially identical processes, a prima facie case of either anticipation or obviousness has been established. In re Best, 562 F.2d 1252, 1255, 195 USPQ 430, 433 (CCPA 1977). "When the PTO shows a sound basis for believing that the products of the applicant and the prior art are the same, the applicant has the burden of showing that they are not." In re Spada, 911 F.2d 705, 709, 15 USPQ2d 1655, 1658 (Fed. Cir. 1990). Therefore, the prima facie case can be rebutted by evidence showing that the prior art products do not necessarily possess the characteristics of the claimed product. In re Best, 562 F.2d at 1255, 195 USPQ at 433.

Therefore the rejection is deemed proper and it is adhered to.

No claim is allowed.

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Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Irene Marx whose telephone number is (571) 272-0919. The examiner can normally be reached on M-F (6:30-3:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael G. Wityshyn can be reached on 571-272-0926. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

June Marx
Primary Examiner

Primary Examiner

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